



# TIMELINEZ

THE JOINT NEWSLETTER OF THE THREE TIMEX-SINCLAIR  
USER GROUPS IN THE SAN FRANCISCO BAY AREA  
\*\* EBZUG PUG SVSTUG \*\*

\*\*\*\*\*  
**A USEFUL UTILITY**  
by Fred Templeton  
\*\*\*\*\*

```

1 REM      DECIMAL TO BINARY
           BINARY TO DECIMAL
           (POS. OR NEG.)
           (WHOLE OR FRACTIONAL)
           BY FRED TEMPLETON

10 INPUT "enter ""D"" for deci
mal to binary""enter ""B"" for
binary to decimal"i$: IF i$<>"b
" AND i$<>"B" AND i$<>"d" AND i$
<>"D" THEN GO TO 10
11 IF i$="b" OR i$="B" THEN GO
TO 100
15 BORDER 5: INPUT "enter deci
mal system number"d
16 PRINT d: IF d<0 THEN PRINT
"-": LET d=ABS d
18 IF d<2 THEN LET i=0: GO TO
30
19 IF d>2+30 THEN PRINT "numbe
r to big""GO TO 15
20 FOR i=29 TO 1 STEP -1
25 IF d<2+i THEN NEXT i
30 FOR i=i TO 1-29 STEP -1
40 PRINT d>=2+i:
50 IF d>=2+i THEN LET d=d-2+i
53 PRINT "." AND (i=0 AND d<>0
): IF i<=0 AND d=0 THEN GO TO 8
0
70 NEXT i
80 PRINT "": GO TO 1
100 REM      BINARY TO DECIMAL
110 BORDER 5: INPUT "enter bina
ry number"TAB 31:b$: PRINT "b$
": LET l=LEN b$: IF l=0 OR l>32
THEN PRINT "0 OR number too big
": GO TO 110
111 LET s=1: IF b$(1)="-" THEN
LET s=-1: LET b%=b$(2 TO l): LET
l=l-1
115 LET p=l+1: FOR i=1 TO l
116 IF p=l+1 AND b$(i)="-" THEN
LET p=i: LET b$(i TO l-1)=b$(i+
1 TO l): LET l=l-1: GO TO 119
117 IF b$(i)<>"1" AND b$(i)<>"0
" THEN PRINT "invalid binary num
ber": GO TO 110
145 NEXT i: LET d=0: FOR i=p-2
TO p-l-1 STEP -1
160 LET d=d+VAL b$(ABS (1+i-p))
+2+i: NEXT i: PRINT "decimal #="
:d$: GO TO 1
9999 SAVE "dec2binary" LINE 1: U
ERIFY ""

```

\*\*\*\*\*  
**SVSTUG NEWS**  
by Bill Miller  
\*\*\*\*\*

AT THE APRIL 30 MEETING OF THE  
SILICON VALLEY USER GROUP, TERRY  
GREENLEE PROVIDED A DEMONSTRATION  
OF THE TS-2068 LIBRARY TAPE.

IN ADDITION, BILL MILLER DEMON-  
STRATED THE DAMCO WAFADDRIVE  
ALONG WITH THE SPECTRAL WRITER  
PROGRAM THAT COMES WITH IT.

## FUTURE SVSTUG MEETINGS:

TUESDAY, MAY 27  
THURSDAY, JUN 26  
TUESDAY, JUL 29

THANKS TO JOHN EZIKE OF EBZUG FOR  
DISTRIBUTING TIMELINEZ MATERIALS  
AT THE WEST COAST COMPUTER FAIRE.

## C O N T E N T S

SVUG NEWS, Bill Miller	207
SOFTWARE LIBRARY	208
PUG NEWS, George Mockridge	209
EBZUG NEWS, F. Templeton	210
DEC-HEX-BINARY TABLE	211
NEWSLETTER EXCHANGE	212
COMPUTER CALENDAR	213

## SOFTWARE LIBRARIES

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EBZUG LIBRARY  
(As of April 28, 1986)

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ANDROIDS  
BUGABOO  
CASINO 1  
CENTIPEDE  
CHESS  
COLOR ORGAN  
CYBERZONE  
DATAFILE  
DICTATOR  
DLAN  
DRAW II  
EXTENDED BASIC  
FALL OF THE THIRD REICH  
FLIGHT SIMULATOR  
GOLF  
GRAFIST  
HOME ACCOUNTING  
HORACE AND THE SPIDERS  
KEYBOARD TUTORIAL  
MATH WIZARDRY 1  
MEMSCAN B  
MINED-OUT  
MISC  
MTERM II  
MUSICOLA  
PENETRATOR  
SCREEN CODE 2.0  
SMUGGLER'S COVE  
SPAWN OF EVIL  
SPECTRAL INVADERS  
SPECTRES  
STATES AND CAPITOLS  
TAPECOPY  
TASWORD TWO  
3D TANX  
TIMELINEZ INDEX  
TINY BOARD  
TURTLE GRAPHICS  
VU-CALC  
VU-FILE  
VU-3D  
XADOM  
ZEUS ASSEMBLER  
ZEUS MONITOR-DISASSEMBLER

\*\*\*\*\*

PUG/SVSTUG LIBRARY  
(As of April 20, 1986)

\*\*\*\*\*

AERCO PRINT DRIVER PUB 25A  
ASTRO BLASTER; SEE CYCB'D-ASSULT  
BIO-RYTHMS 24A  
BREATHRU: AN MTERM UTILITY 35A  
BUFFERLOADER-MTERM UTILITY 35B  
BUGABOO @ 5A  
BUGABOO (SPECTRUM) @ 32A  
CALCULATOR 15A  
CASINO @ 30A  
CHRISTMAS MUSIC 37B  
CIRCUIT BOARD SCRAMBLE @ 30B  
COLOR ORGAN 29A  
COMPACTOR 2068/SPEC 27A  
CYBIRD ASSULT (ASTRO BLAST) @ 33B  
CYCLEPATH ; SEE DEATHCHASE  
DEATHCHASE (CYCLEPATH) @ 33A  
DIGITAL CIRCUIT DESIGNER 20A  
DIRECTORY (JACK DOHANY) 36A  
DISASSEMBLER 1A  
DISPLAY LANGUAGE 68/SPEC @ 27B  
DRAGMASTER @ 7A  
DRAGONS BANE (SPECTRUM) @ 31A  
DRIVER 3D 3A  
EXTENDED BASIC (SPRITES) 22A  
FIRST LOADER 16A  
FREEWAY 3B  
GAME PAC 'PP1' 21A  
GAME PAC 'PP2' 21B  
GAMES DESIGNER (SPECTRUM) @ 31B  
GLOW-WORM PUB 8A  
GOLF 2A  
GRAPH 3D 14B  
GRID PUB 28B  
HEADERS 23A  
HORACE & THE SPIDER @ 10A  
HUNGRY HORACE @ 10B  
KEYWORD 19A  
LAS VEGAS 14A  
MONITOR 1A  
MTERM II 23B  
NOUGHTS & CROSSES 3D 4A  
QUICKLOAD 13A  
STATISTICS 9A  
TAPE LABELER FOR 2068 38A  
TELEPHONE BOOK PUB 6A  
TELEPHONEBOOK 3.5 AUTODIAL 36B  
TEXTMAN WORD PROCESSOR @ 11A  
THICK CHARACTERS 26B  
TOOLKIT 13B  
TRACER PUB 12A  
TYPEWRITER 17A  
TYPEWRITER 64 18A  
USR CHARACTERS 26A  
VELNOR'S LAIR (SPECTRUM) @ 32B  
VU-CALC @ 34A  
VU-FILE @ 34B  
WORD PUZZLE PUB 28A  
WORDS 3D 37A

# TIMELINEZ

\*\*\*\*\*  
\* PUBLISH! X  
\* OR PERISH! \*  
\*\*\*\*\*

THE JUNE ISSUE  
OF TIMELINEZ  
WILL BE THE  
THIRD  
ANNIVERSARY  
ISSUE!!

IT WOULD BE A  
SHAME NOT TO  
PUBLISH THAT  
ISSUE BECAUSE  
USERS ARE NOT  
SENDING IN  
MATERIAL!!

\*\*\*\*\*  
PERISH FORBID!  
\*\*\*\*\*

\*\*\*\*\*  
A NOTE FROM FRED TEMPLETON  
\*\*\*\*\*

I am currently working on converting the TS-2048 8K EXROM to a 16K EPROM leaving EXROM intact and installing my word-processor on Chunk 1 thereby leaving 40K free for text. I need hardware help from anyone who is interested or experienced in making a jumper to socket a 27128 EPROM from the EXROM socket. If you can help (or are interested in the finished product), please contact:

Fred Templeton  
520 Northbrook Court  
Antioch, CA 94509

(415) 754-5575

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\*\*\*\*\*  
PUG NEWS  
by George Mockridge  
\*\*\*\*\*

Those who have attended the last couple of PUG meetings have no doubt noticed some personnel and procedural changes at our monthly gatherings. Norm Lehfeldt and Jack Dohany are now sharing the tasks of organizing and presiding over the meetings. Pat Morrissey will collect dues, maintain the membership list and mail the newsletter. I have been asked to retain the title of President, but most of my time will be spent as PUG editor for TIMELINEZ.

I am sure that PUG will benefit by having more people involved in leadership roles. Jack has a nationwide reputation for his MSCRIPT enhancements and AERCO expertise. Norm is a QL Pioneer and is also well known on the Compuserve T/S network throughout the country. Pat is the person to contact if you are getting started with a modem. He has the knowledge and documentation to get you going. Come to the next meeting and take advantage of our resources.

At the April meeting, in addition to our regular activities, we had a report from Rita Toth on the prison project. It is progressing well and Rita promised a TIMELINEZ article. Rex Lundgren and Sunset Electronics announced that they are providing repair work on T/S computers. Broken machines from all over the country are already arriving at Sunset. Norm Lehfeldt dialed up Compuserve on his QL and gave us a look into some areas of the large data base which is available to subscribers.

Before I wrap things up for this month, I would like to make an appeal to the person or persons who have been taking the other newsletters from around the country home with them. These were the ones on the table in the front of the room. I was in the process of putting all the articles into an index so everyone could have access to items of interest. I planned to loan out the N/L's when I got everything catalogued, but now a large number are missing. I would ask everyone to please check their computer literature and return any Exchange N/L's that got mixed in with other papers. SEE YOU ALL MAY 18TH.

\*\*\*\*\*  
EBZUG NEWS  
by Fred Templeton  
\*\*\*\*\*

REPORT ON MEETING OF APRIL 24, 1986: CALLED TO ORDER AT 8:20 PM

PRESIDED OFFICER: WOODY

1. REPORT ON SINCLAIR AQUISITION BY ANOTHER ENGLISH COMPANY - AMSTRAD CONSUMER ELECTRONICS.
2. REPORT ON COMPUTER FAIRE AND SWAP MEETS. SOME MEMBERS REPORT GOOD BARGINS ON SOME OF THEIR PURCHASES.
3. BILL MILLER DISCUSSED THE TIMELINEZ LIBRARY AND OTHER PUBLISHED MATERIAL HE HAS AVAILABE FOR THE GROUP.
4. NOMINATIONS FOR OFFICERS. IT WAS DETERMINED THAT NO NOMINATIONS WOULD BE NEEDED AND THAT THE EXISTING STEERING COMMITTEE WOULD CONTINUE.
5. REPORT ON 1000s BY JOHN: 1000 LIBRARY PRESENTLY INCLUDES SOME NEW MODEM/BBS SOFTWARE. DALE TO BRING VIDE BOARD TO NEXT MEETING.
6. MODEMS: WOODY REPORTED THAT THE USER GROUP STILL HAS THREE OR FOUR KITS FOR SALE. 4 BARE BOARDS PER KIT WITH NO GUARANTEE, UNTESTED. AT LEAST 4 OF THE MEMBERS REPORTED THAT THEY GOT THEIRS TO WORK PROPERLY. PRICE APPROXIMATELY \$12.50 PER KIT.
7. DAVID GRAY, BILL, AND KIRK ADAMS SAID THEY WOULD DEMONSTRATE ANY OF THEIR SOFTWARE AT THE REQUEST OF OTHERS. DAVID GRAY LOADED HIS TS-2068 WITH AN 80 COLUMN WORD PROCESSING PROGRAM WRITTEN BY ANOTHER NEW MEMBER SHOWING THAT IT CAN BE DONE (AND IN BASIC: 512 PIXEL SCREEN USING 6 PIXELS PER CHARACTER).
8. THE MEETING THEN DISPERSED INTO INDIVIDUAL GROUPS FOR DISCUSSION AND DEMONSTRATIONS.
9. MEETING ENDED APPROXIMATELY 10:15.

\*\*\*\*\*  
DEC - HEX - BINARY LOOKUP TABLE  
\*\*\*\*\*

THE FOLLOWING PROGRAM WAS SUBMITTED BY FRED TEMPLETON. HE USES A PRINT-OUT (SEE COPY ON FACING PAGE) TO HELP HIM WHEN WRITTING ASSEMBLY CODE. FRED INDICATES THAT IT IS ESPECIALLY HELPFUL FOR VIGUALIZING BIT PATTERNS FOR LOGIC COMMANDS AND BIT MANIPULATING COMMANDS.

```

1 REM TS2068/2040 DEC - HEX - BINARY LOOKUP TABLE BY FRED TEMPLETON
10 LET h$="0123456789ABCDEF": POKE 23692,255: LET b$= CHR$ 8+ CHR$ 8
20 FOR a=0 TO 127
40 LET c=a+128: LPRINT TAB 17;c;" ";h$(INT (c/16)+1);h$(c-INT (c/16)*16+1); TAB 31;: GO SUB 130
50 LET c=a: LPRINT CHR$ 8;b$;b$;b$;b$;
60 GO SUB 130: LPRINT b$;b$;b$;a; TAB 4;h$(INT (a/16)+1);h$(a-INT (a/16)*16+1)
80 NEXT a: STOP
130 FOR b=1 TO 8
150 IF INT (c/2)=c/2 THEN LPRINT b-1;
151 IF INT (c/2) <> c/2 THEN LPRINT INVERSE 1;b-1;
155 LET c= INT (c/2)
160 LPRINT b$;: NEXT b
170 RETURN

```





FROM THE MAY 86 PLOTTER N/L  
OF THE COAT/S T/S GROUP IN  
CLACKAMAS COITY, OREGON.

A+ COMPUTER RESPONSE—from New Hampshire, have purchased the entire North American supply of Sinclair products and are the new distributor for the QL line. They have reorganised the dealer structure in this country, and, as the manager of A+, CAROL WHITMAN, said, they were going to separate the men from the boys. They did that by requiring a large initial order to ensure that the dealer was, in fact, a dealer and not just a business owner who saw a way to get a low price on his QL. We understand that they are also going to import a lot of third party products for the QL. We hope so! By the way, they are giving the QL system away at the Cincinnati show.

FROM THE MAR/APR I.B.A. COMPUTER  
USERS NETWORK MAGAZINE (FORMERLY  
T.S.S. NEWSNOTES).

FROM THE MAR. 86 SUM NATIONAL  
N/L IN GAINESVILLE, FLORIDA.

The January issue of SUM contained a program for solving Jumbled Word Puzzles. Robert Fischer went to work and developed a much shorter version of the BASIC program which will also allow words of any length up to 16 characters (but only 6 fit in the on-screen box). To start over, push the zero key. To communicate with Mr. Fischer, write to 221 Scoggins Street, Summerville, GA 30747.

```
10 POKE 23658,8: BORDER 0: PAP
ER 0: INK 7: CLS: PRINT AT 2,9:
INK 2:"S H U F F L E": INK 7: P
LOT 72,103: DRAW 104,0: DRAW 0,
-25: DRAW -104,0: DRAW 0,25: PRI
NT AT 20,6: INK 1:"ENTER 2 TO 6
LETTERS": INPUT B$: LET A=LEN B$
110 PRINT AT 20,3:"PRESS ANY KE
Y TO CONTINUE ",TAB 10:"0 RESTAR
TS": LET Z$=B$: LET C$="": FOR I
=1 TO A
140 LET R=INT (A*RND)+1: IF B$(
R)="0" THEN GO TO 140
160 LET C$=C$+B$(R)+" ": LET B$(
R)="0": NEXT I: PRINT AT 10,16-
A: INK 6:C$
220 LET B$=Z$: PAUSE 0: LET A$=
INKEY$: GO TO 110-(100 AND A$="0
")
450 SAVE "SHUFFLE" LINE 10
```

### CLONING QL's BUNDLED SOFTWARE

One of the most important thing you should first do when receiving your new QL is to make backup copies of the 4 free programs you received with the computer. That is one of the reasons you get 4 blank cartridges with the QL Package. This is very easy to do if you know that a program called Clone is on each of the four program cartridges. Clone is a SuperBasic program that first formats a Blank cartridge then makes a exact copy of all the programs on the original cartridge. You may wish to FORMAT your blank cartridge several times before doing this. You simply place the original cartridge you wish to copy in drive 2 and a new cartridge in drive 1. You can use a used cartridge in drive 1 if you don't mind everything being erased on it.

You then type in: `LRUN MDV2_CLONE`

The computer program will do everything else for you. The whole takes several minutes because there are several programs on each cartridge. You have to repeat the LRUN command with each cartridge you copy as the program names are different.

\* \* \* \* \*

## COMPUTER CALENDAR

\* \* \* \* \*

### M A Y

- 18 Peninsula User Group 1:00  
Peninsula Hospital  
1783 El Camino Real  
Burlingame
- 22 East Bay User Group 7:30  
West Branch Library  
1125 University Avenue  
Berkeley
- 27 Silicon Valley User Group 7:00  
Cupertino Library  
10400 Torre Avenue  
Cupertino

### J U N E

- 15 Peninsula User Group 1:00
- 26 East Bay User Group 7:30
- 26 Silicon Valley User Group 7:00

\* \* \* \* \*

NEW DAY! NEW TIME! NEW STATION!!

THE COMPUTER SHOW  
EVERY TUESDAY, 7 TO 8 P.M.  
TV STATION KTSF, CHANNEL 26

\* \* \* \* \*

E B Z U G EAST BAY Z80 USER GROUP  
\*\*\*\*\* 654 40th STREET  
RICHMOND, CALIFORNIA 94805  
(415) 234-3310

PRESIDENT: (VACANT)

MEETINGS: FOURTH THURSDAY OF EACH MONTH, 7:30 P.M.  
WEST BRANCH LIBRARY  
1125 UNIVERSITY AVENUE, BERKELEY

MAKE CHECK FOR DUES PAYABLE TO 'WOODY McPHEETERS'.

P U G PENINSULA USER GROUP  
\*\*\*\*\* 263 GATEWAY, NO. 107  
PACIFICA, CALIFORNIA 94044  
(415) 359-3198

PRESIDENT: GEORGE HOCKRIDGE

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.  
PENINSULA HOSPITAL  
1783 EL CAMINO REAL, BURLINGAME

MAIL DUES TO 'PAT MORRISSEY', 2000 CRYSTAL SPRINGS ROAD,  
BLDG 21, APT 22, SAN BRUNO, CA 94066

S V S T U G SILICON VALLEY SINCLAIR TECHNOLOGY USER GROUP  
\*\*\*\*\* 6675 CLIFFORD DRIVE  
CUPERTINO, CALIFORNIA 95014  
(408) 253-3175

PRESIDENT: RITA CARR, (408) 738-2888, X-4579

MEETINGS: LAST TUESDAY OF EACH MONTH, 7:00 P.M.  
CUPERTINO LIBRARY  
10400 TORRE AVENUE, CUPERTINO

MAKE CHECK FOR DUES PAYABLE TO 'SINCLINK'.

THIS TIMELINEZ NEWSLETTER IS A JOINT PUBLICATION OF THE THREE  
TIMEX-SINCLAIR USER GROUPS IN THE SAN FRANCISCO BAY AREA.

NEW MEMBERS AND VISITORS ARE ALWAYS WELCOME.

FOR FULL MEMBERSHIP (WHICH INCLUDES PARTICIPATION IN GROUP  
MEETINGS, THE TIMELINEZ NEWSLETTER, TAPE LIBRARY PRIVILEGES,  
AND SPECIAL EVENTS), SEND \$15 ANNUAL DUES TO ONE OF THE ABOVE  
ADDRESSES WITH THE CHECK MADE PAYABLE AS INDICATED.

FOR ONLY AN ANNUAL SUBSCRIPTION TO NEWSLETTER, SEND \$10 CHECK  
PAYABLE TO: TIMELINEZ, P.O. BOX 1312, PACIFICA, CA. 94044

# TIMELINEZ

1 REM AN ETCH-A-SKETCH TYPE OF  
DRAWING BOARD FOR THE ZX81 AND  
THE 1000

2 REM

3 REM (C) 1986 MICHAEL FURMAN

4 REM

5 REM USE THE KEYS Q,A,P,O,TO  
MOVE THE CURSOR,E AND Q,A,P,OR O  
TO ERASE ONE DOT AT A TIME,AND  
R LETS YOU DRAW AGAIN.

6 REM THIS PROGRAM HAS AN "ALL-  
WAYS" FLASHING CURSOR.

9 PRINT "ETCH-A-SKETCH"

10 LET X=31

11 LET Y=21

12 LET V=0

20 IF INKEY\$="Q" AND Y<43 THEN  
LET Y=Y+1

30 IF INKEY\$="A" AND Y>1 THEN  
LET Y=Y-1

40 IF INKEY\$="P" AND X<63 THEN  
LET X=X+1

50 IF INKEY\$="O" AND X>1 THEN  
LET X=X-1

60 IF INKEY\$<>"C" THEN GOTO 75

70 CLS

71 GOTO 9

80 IF INKEY\$="E" THEN LET V=1

82 IF INKEY\$="R" THEN LET V=0

84 IF V=0 THEN GOTO 92

86 PLOT X,Y

88 UNPLOT X,Y

90 GOTO 20

92 UNPLOT X,Y

94 PLOT X,Y

96 GOTO 20



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PUG	G. Mockridge
SVSTUG	Bill Miller

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EBZUG	Bill Strick

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